



Arch-Crete Form Technology

The face of the form (texture side) and the support frame (structural grid) are integrated into one form using advanced composite materials for...

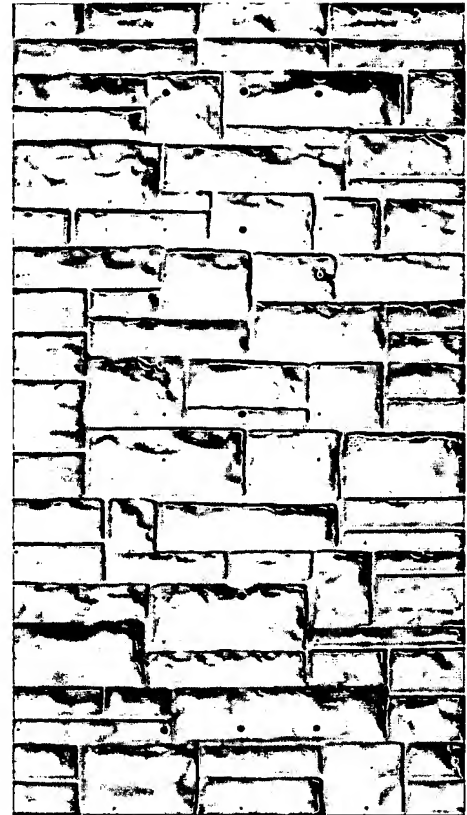
- ☐ Strength and durability.
- ☐ Impact resistance.
- ☐ Temperature control/ UV.

Arch-Crete Forms are designed so that they are assembled using industry standard installation methods (reusable hardware components).

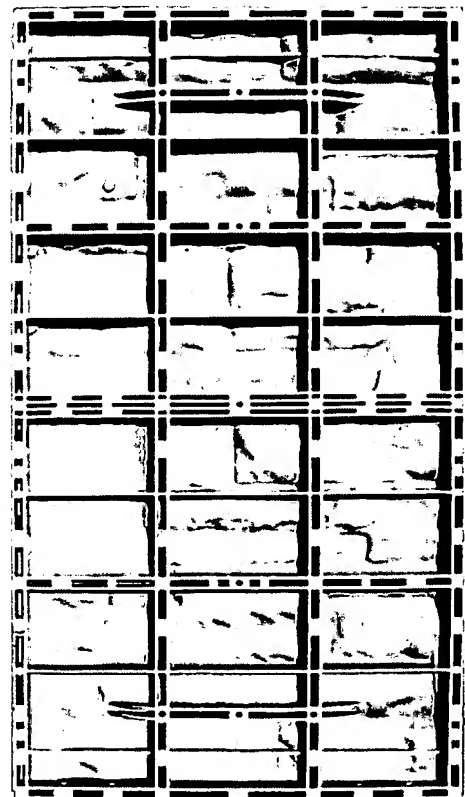
- ☐ Pin and wedge to connect panels together.
- ☐ Walers for stiffening and work platform.
- ☐ Aligners to stabilize the wall.
- ☐ Spacer ties and center ties for controlling panel deflections. Ties available in different wall thicknesses.

Arch-Crete Forms are fabricated in any size to meet design requirements.

- ☐ Filler forms.
- ☐ Inside corners, 90°, 45°, etc.
- ☐ Outside corners for various wall thicknesses.
- ☐ Pier forms.
- ☐ Column forms.
- ☐ Precast forms.



Texture side



Support side

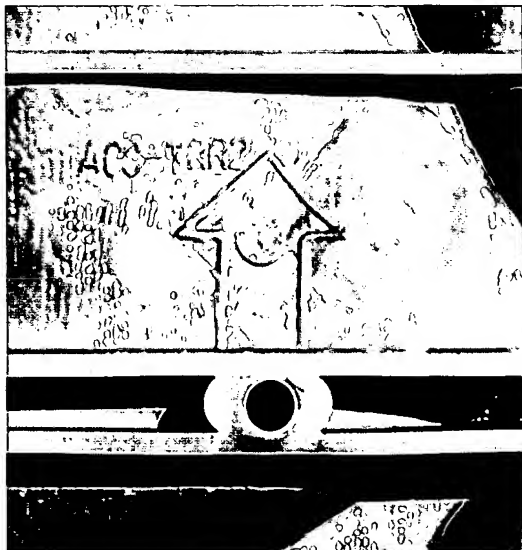
Arch-Crete Form Technology

The perimeter frame is designed and manufactured to allow for quick and easy setup.

- ❑ 8 – 8 hole pattern for pin and wedge connection.
- ❑ Rocks align with adjacent forms to make the pattern continuous both horizontally and vertically.
- ❑ Spacer tie recess conceals the metal tie to reduce the seam width.
- ❑ Holes at top and bottom to allow stacking of formwork.

The form consist of other features that eliminates installation errors and makes Arch-Crete a user friendly product.

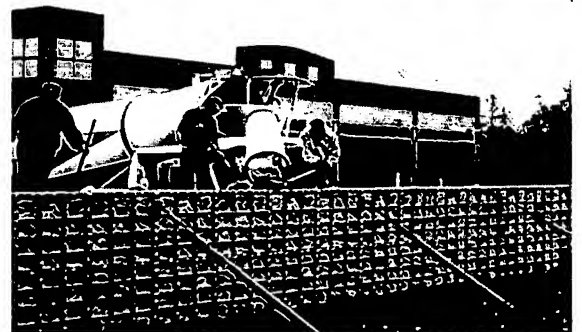
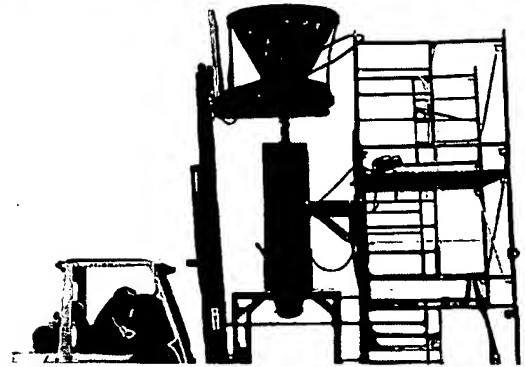
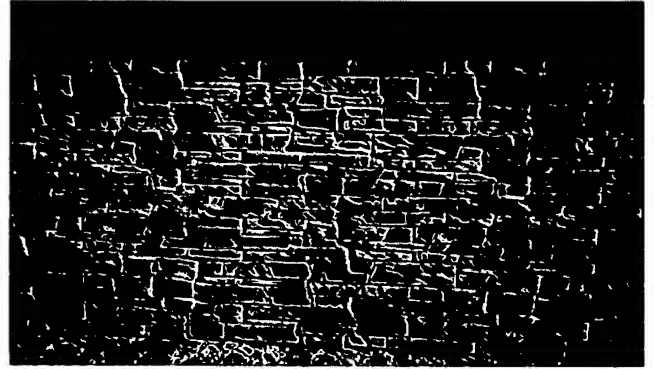
- ❑ Pre-molded holes accurately indicates the location of center ties.
- ❑ Arrow on support side is a visual icon that indicates the orientation of the form. Always install forms with one arrow up and the next arrow down. This also increases the length for the repeat pattern.
- ❑ Extra material is added where hardware components attach to the form to ensure durability.



Arch-Crete Benefits

Some of the benefits of using Arch-Crete are...

- ☐ **High quality concrete finishes** - Provides consistent finish throughout the project.
- ☐ **1500 + pours** – Arch-Crete has been tested by an independent 3rd party laboratory for abrasion.
- ☐ **Easy assembly** – The only tool required to install the system is a hammer.
- ☐ **Durable** – Arch-Crete Forms are designed and engineered to provide maximum safety for the placing crews during assembly, pouring, and removal of the formwork.
- ☐ **Low maintenance** – Arch-Crete Forms unique material releases from the concrete surface with ease and minimal concrete residue.

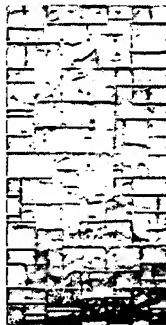


Arch-Crete Textures

☐ Boulder Stone



☐ Castle Cut Stone



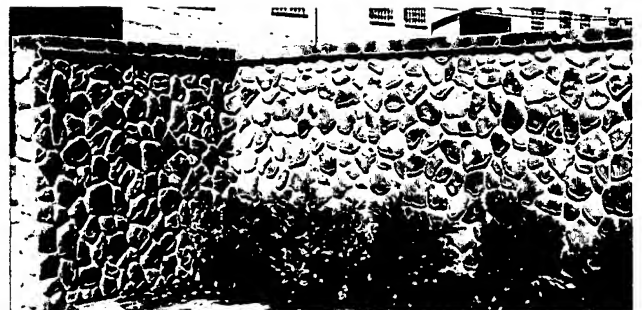
☐ Cobble Stone



☐ Ledge Stone



☐ River Rock II



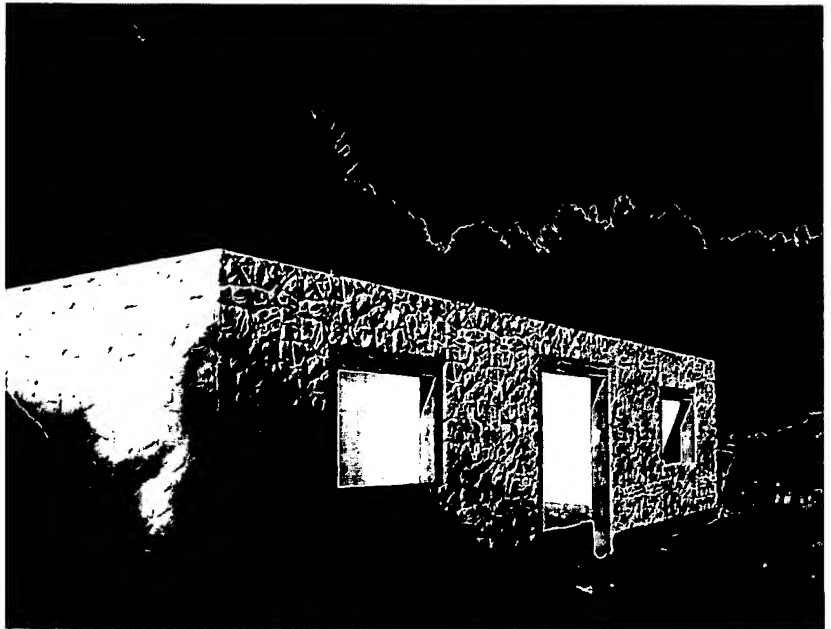
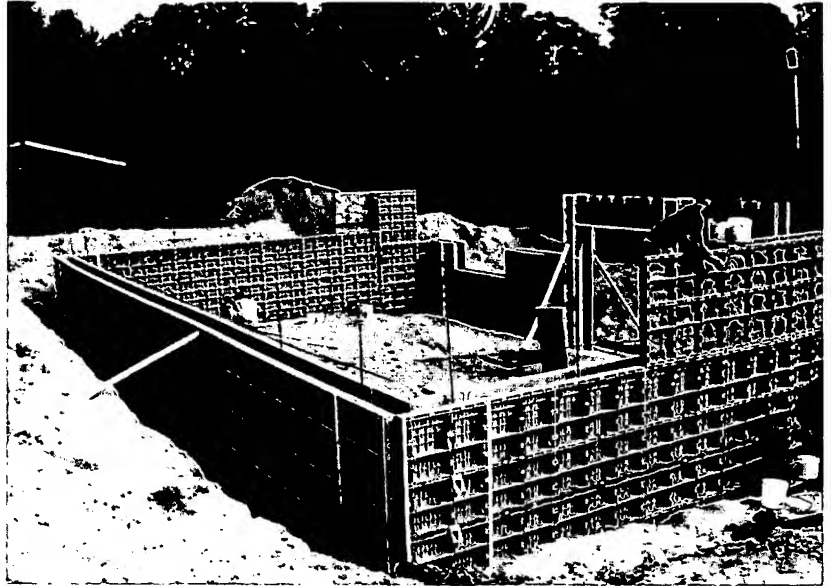
Residential and Commercial Foundations

Project: **Residential foundation** for log cabin style home with *smooth* on interior side and *Boulder Stone* on exposed exterior side, complete with door and window openings.

Height: 10 ft (3 m)

Size of basement: 28 ft x 40 ft
(8.5 m x 12 m)

Location: Ohio

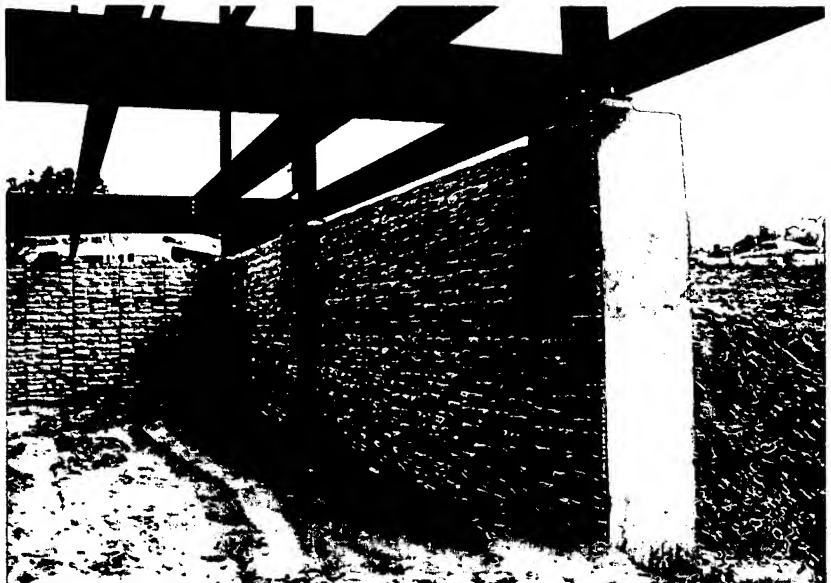


Project : **Commercial Foundation** with structural pilasters spaced at 30 feet on center. *Smooth* texture on retaining side of wall and *Cobble Stone* on parking garage side.

Height: 12 ft (3.6 m)

Size of foundation: 70 ft x 215 ft
(21 m x 65 m)

Location: Michigan



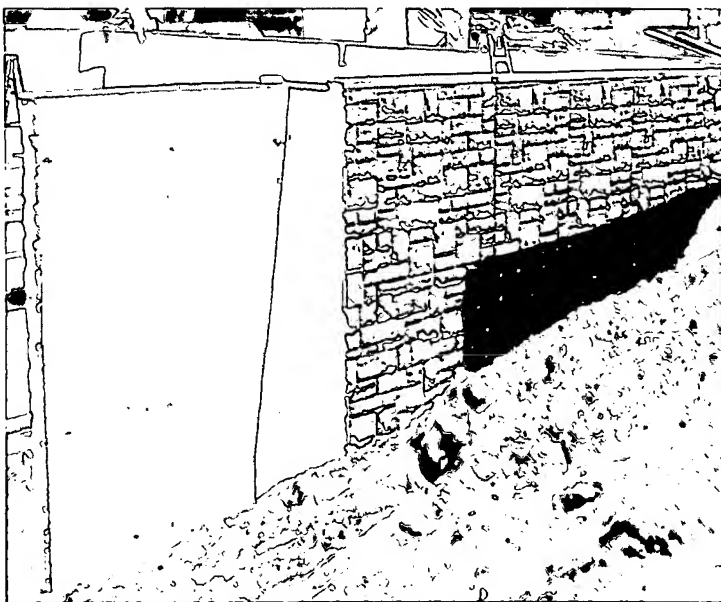
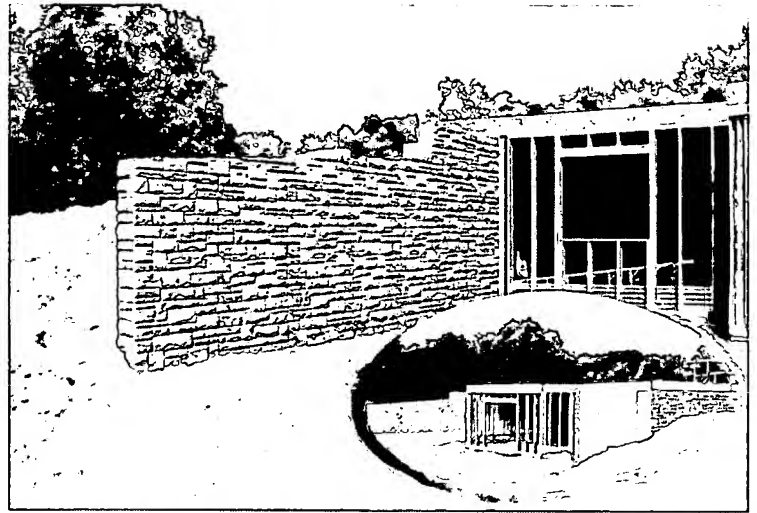
Retaining and Wing Walls

Project: **Retaining and wing wall** attached to residential concrete foundation. Aluminum forms (by others) on retaining side and *Cobble Stone* (by Arch-Crete) on exposed side of wing wall. Arch-Crete formwork utilized throughout the project to construct the walls for the stairs, exposed foundations, and the exposed portion of the basement foundation.

Height: 10 ft (3 m)

Length of wall: Varies

Location: Michigan



Retaining Walls

Project: **Retaining wall** for driveway with *smooth* on retaining side and *River Rock* on exposed side. Wall continues along the property line to create a privacy wall.

Height: 3 ft (0.9 m)

Length of wall: Over 300 ft (90 m)

Location: California

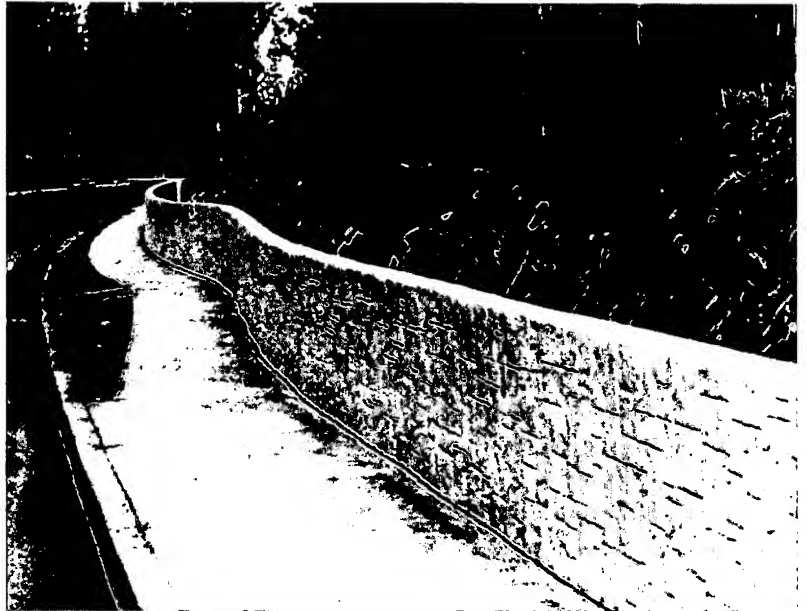


Project: **Streetscape wall** along a pedestrian path with *smooth* on one side and *Castle Cut* on exposed side. Wall follows the contour of the road and sidewalk.

Height: 3 ft (0.9 m)

Length of wall: 900 ft (273 m)

Location: Oregon



Project: **Sea wall** for residential project with *Boulder Stone* on lake side and *Ledge Stone* on residential side. Aluminum forms (by others) are used in a T-Wall configuration to create the wall anchors

Height: 6 ft (1.8 m)

Length of wall: 200 ft (60 m)

Location: Alabama



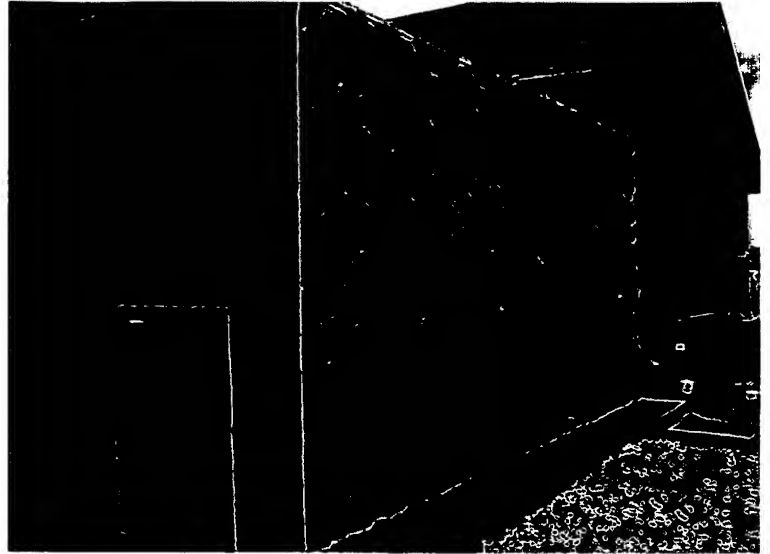
Privacy Walls

Project: **Privacy screen wall** enclosure for residential patio with *Boulder Stone* on both sides.

Height: 6 ft (1.8 m)

Length of wall: 12 ft (3.6 m)

Location: Colorado

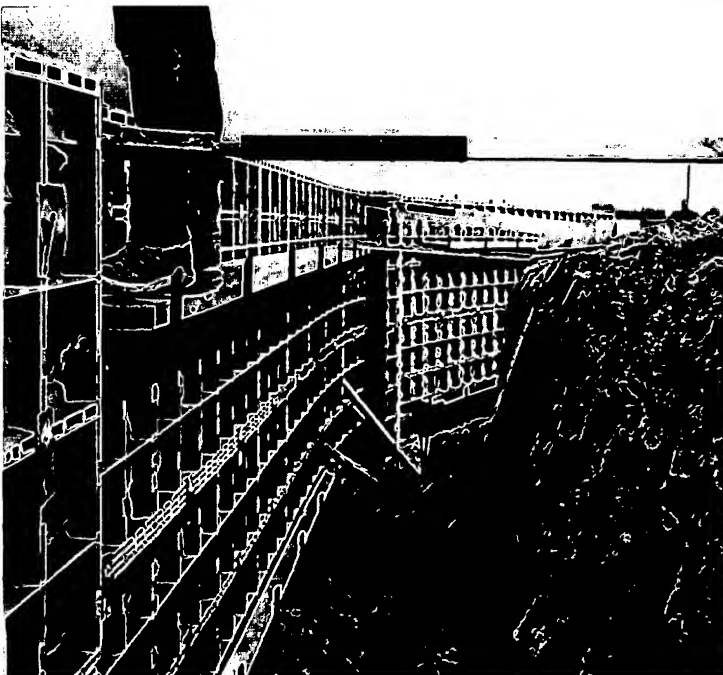
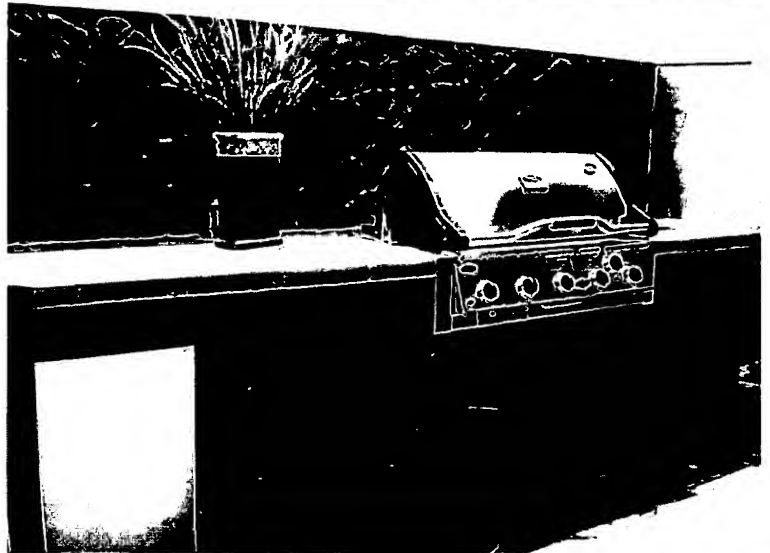


Project: **Retaining wall and boundary wall** for a residential subdivision constructed with *Cobble Stone* on both sides. Wall consists of start, center, and corner piers.

Height: 6 ft (1.8 m)

Length of wall: Over 2000 ft (600 m)

Location: Arizona



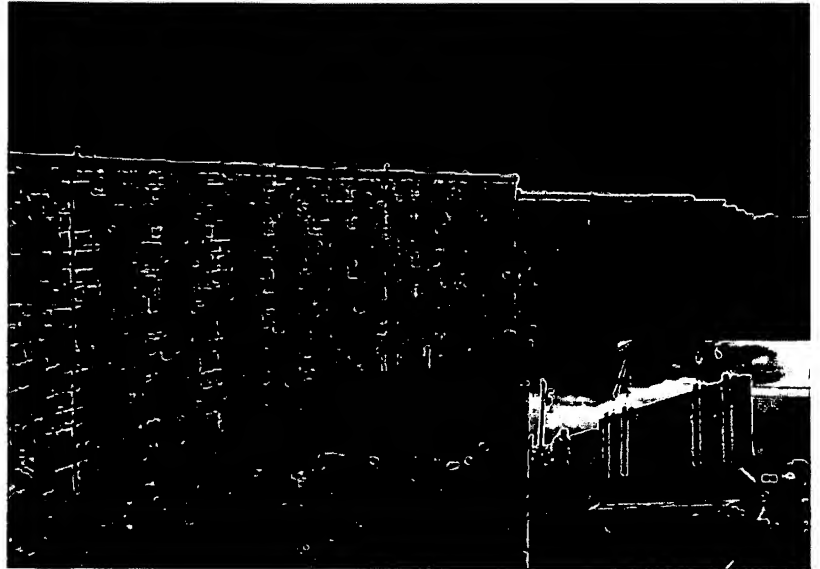
Precast

Project: Precast integral concrete wall and footing system, with *Castle Cut Stone* on both sides of wall, to construct a **boundary wall** for a residential subdivision.

Panel size: 6 ft H x 18 ft L
(1.8 m x 5.5 m)

Length of wall: Over 3000 ft (900 m)

Location: New Mexico



Project: Precast concrete wall panel inserted in precast concrete H-shape beams to construct a **boundary wall** for a residential subdivision with *Ledge Stone* on both sides of wall. Concrete panel includes an integral wall cap.

Panel Size: 9 ft H x 15 ft L
(2.7 m x 4.6 m)

Length of wall: Over 3000 ft (900 m)

Location: Illinois



Project: Precast concrete wall panel inserted in precast concrete H-shape beams to construct a **sound barrier wall** along a highway for Michigan Department of Transportation. Both engineers and residence requested *Castle Cut Stone* on both sides of wall (highway and residential side).

Panel Size: 4 feet H x 19.5 feet L

Length of wall: Over one mile long
(over 1.6 km)

Location: Michigan



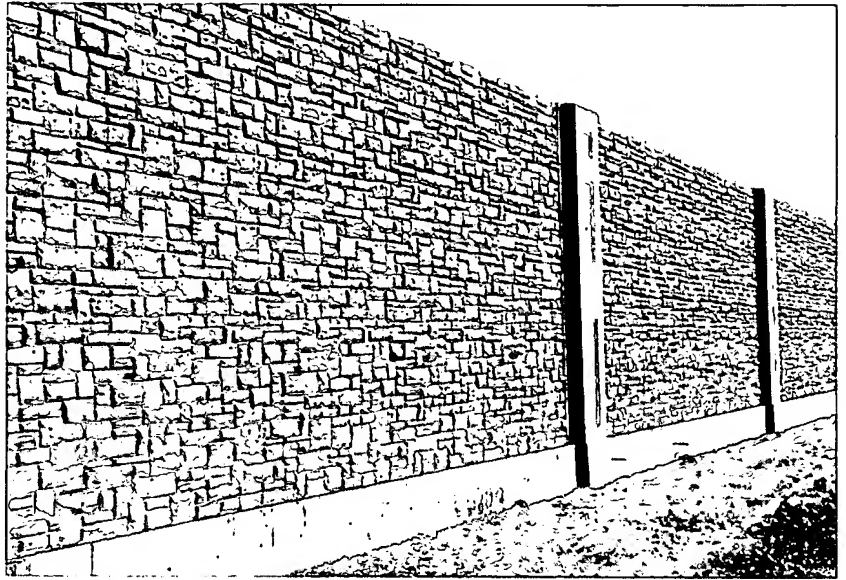
Boundary Walls - Mexico

Project: **Boundary wall** for industrial park with *Cobble Stone* on one side and *Boulder Stone* on opposite side. Wall continues along the property line with piers on one side of the wall.

Height: 12 ft (3.6 m)

Length of wall: 2500 ft (760 m)

Location: Torreon, Mexico

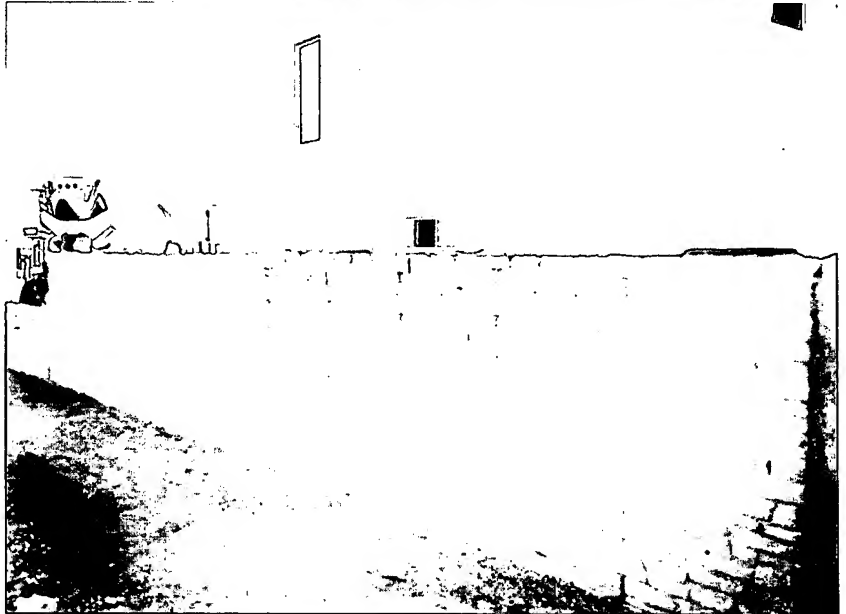


Project: **Boundary wall** for a residential subdivision with *Ledge Stone* on both sides of wall. Concrete wall continues along entire subdivision and between the houses to create the privacy walls for each resident. After the completion of this project, the formwork was sent to another project in Torreon, Mexico.

Height: 6 ft (1.8 m)

Length of wall: 13,000 ft (4000 m)

Location: Reynosa, Mexico

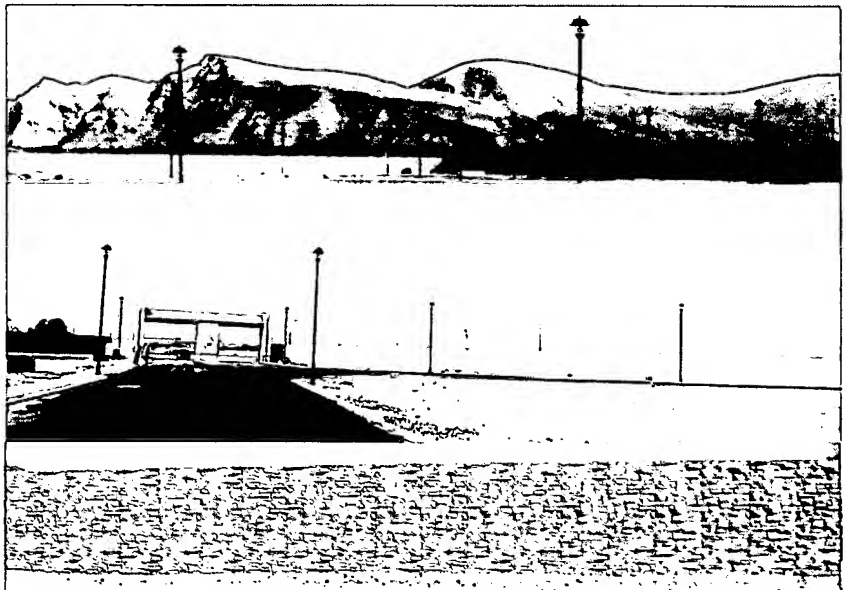


Project: **Boundary wall** for a residential subdivision with *Ledge Stone* on both sides of wall. The wall continues throughout the project. The formwork was previously used to construct over 13,000 ft (4000m) in Reynosa, Mexico.

Height: 6 ft (1.8 m)

Length of wall: 24,600ft (7500 m)

Location: Torreon, Mexico



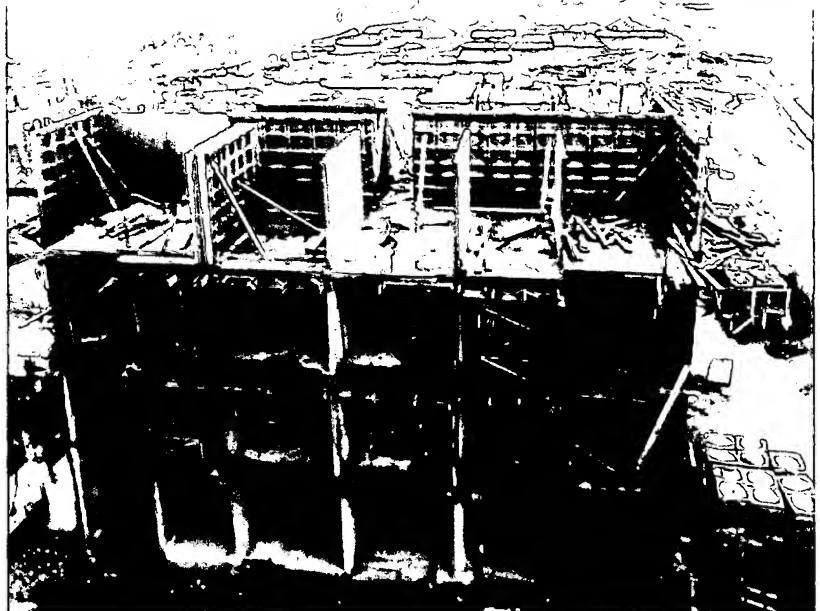
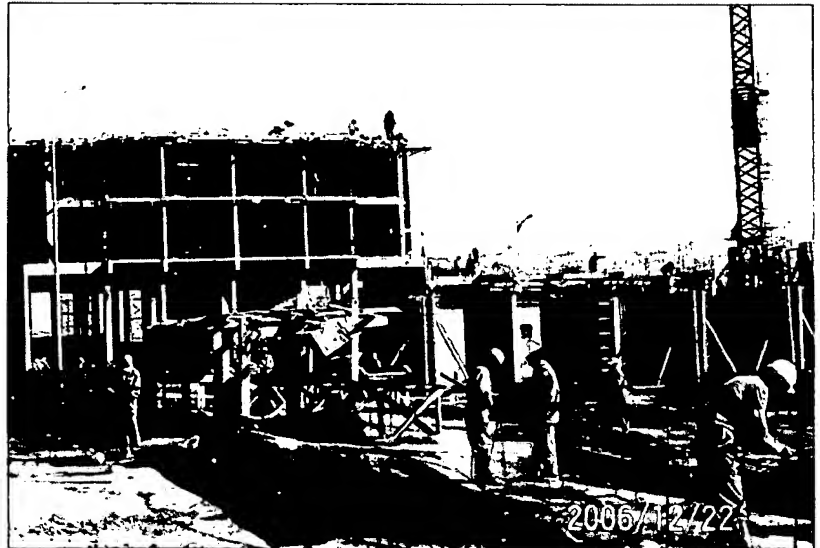
Mid-rise Housing - Morocco

Project: Arch-Crete gang panel system provided solutions for this mid-rise mixed use project. Retail spaces occupied the lower level of the building with residential on the remaining four (4) levels. The intent for this project is for the contractor to setup and pour one level of wall structure on a daily basis. With over 100 buildings on the site and over 30 different building configurations, Arch-Crete *SmoothPanel* module gang system allowed the contractor to easily modify and adjust the wall lengths to meet the design requirements.

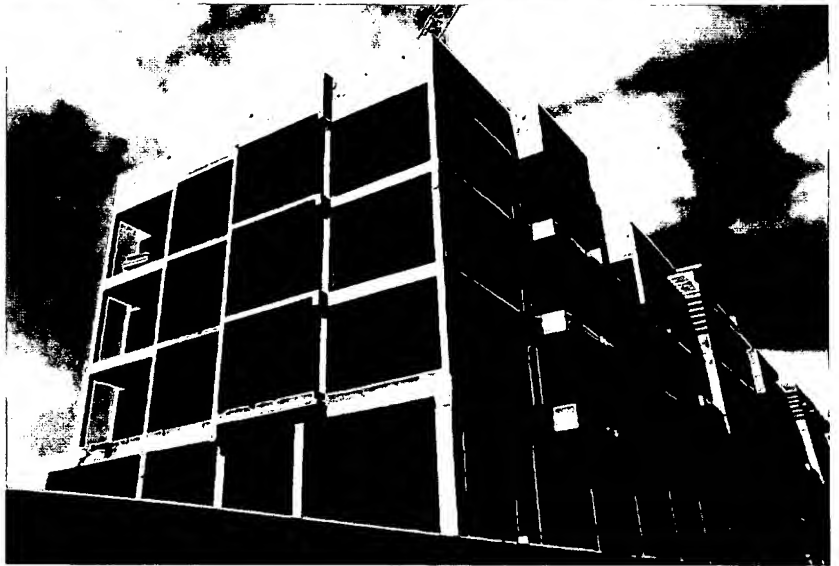
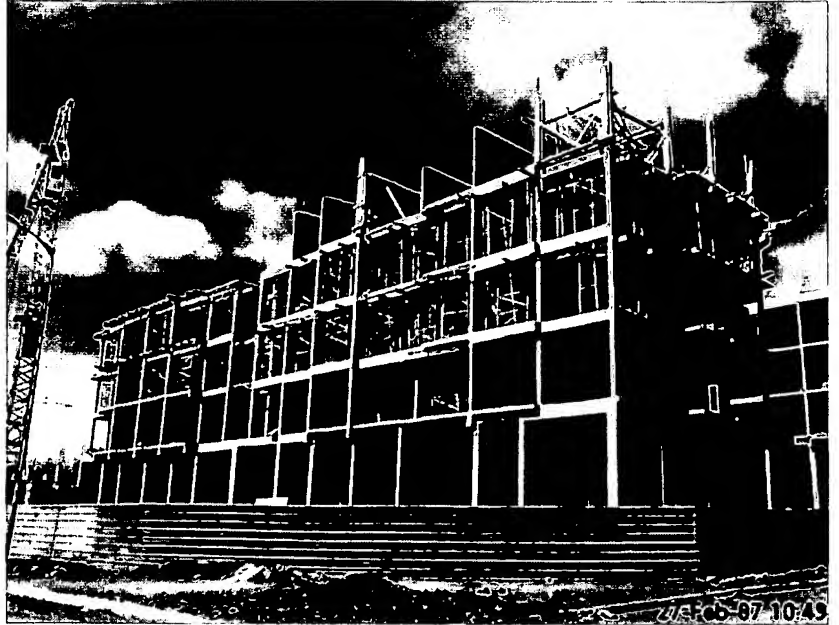
Number of buildings: 100 buildings

Height: 5 stories
commercial 18 feet (5.5 meters)
residential 10 feet (3 meters)

Location: Tangier, Morocco



Mid-rise Housing - Morocco



Additional Concrete Requirements

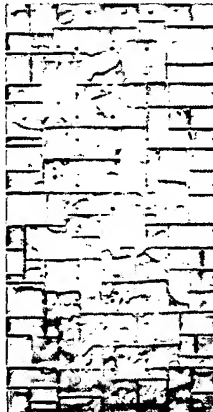
Screen wall applications (texture on both sides)

Texture	Max. form Relief	Additional concrete volume	
	inches	Cubic feet	Cubic yards
Boulder Stone	1.00	3.00	0.111
Castle Cut Stone	0.50	1.50	0.056
Cobble Stone	1.50	4.50	0.167
Ledge Stone	1.00	3.00	0.111
River Rock	2.00	6.00	0.222
Smooth	0.00	0.00	0.00

Retaining wall applications (texture on one side and smooth on opposite side)

Texture	Max. form Relief	Additional concrete volume	
	inches	Cubic feet	Cubic yards
Boulder Stone	1.00	1.50	0.056
Castle Cut Stone	0.50	0.750	0.028
Cobble Stone	1.50	2.250	0.084
Ledge Stone	1.00	1.50	0.056
River Rock	2.00	3.00	0.111
Smooth	0.00	0.00	0.00

Additional concrete requirements when using Arch-Crete textured forming system. These specifications are computed to provide the contractor with the additional volume of concrete ready mix required per 3ft x 6ft area of wall formwork.



**LENGTH OF WALL FOR 9 YARD CONCRETE POUR
FOR 6ft HIGH SCREEN WALL APPLICATIONS (texture on both sides)**

	Wall thickness				
Texture	4"	6"	8"	10"	12"
Boulder Stone	81 ft (24m)	60 ft (18m)	49 ft (15m)	41 ft (13m)	35 ft (10m)
Cobble Stone	70 ft (21m)	54 ft (16m)	44 ft (13m)	38 ft (11m)	33 ft (10m)
Castle Cut Stone	96 ft (29m)	70 ft (21m)	54 ft (16m)	44 ft (13m)	38 ft (11m)
Ledge Stone	81 ft (24m)	69 ft (21m)	49 ft (15m)	41 ft (13m)	35 ft (10m)
River Rock	60 ft (18m)	48 ft (15m)	40 ft (12m)	35 ft (10m)	30 ft (9m)
Smooth	122 ft (37m)	81 ft (24m)	60 ft (18m)	48 ft (15m)	40 ft (12m)

**LENGTH OF WALL FOR 9 YARD CONCRETE POUR FOR
6ft HIGH RETAINING WALL APPLICATIONS (texture on one side and smooth on one side)**

	Wall thickness				
Texture	4"	6"	8"	10"	12"
Boulder Stone	96 ft (29m)	70 ft (21m)	54 ft (16m)	44 ft (13m)	37 ft (11m)
Cobble Stone	88 ft (27m)	64 ft (19m)	50 ft (15m)	42 ft (13m)	36 ft (11m)
Castle Cut Stone	108 ft (33m)	75 ft (23m)	57 ft (17m)	46 ft (14m)	39 ft (12m)
Ledge Stone	96 ft (29m)	70 ft (21m)	54 ft (16m)	44 ft (13m)	37 ft (11m)
River Rock	81 ft (24m)	60 ft (18m)	48 ft (15m)	40 ft (12m)	34 ft (10m)
Smooth	122 ft (37m)	81 ft (24m)	60 ft (18m)	48 ft (15m)	40 ft (12m)